

SYSTEM AND METHOD FOR COMMUNICATING  
USING MULTIPLE MEMORY BANKS

ABSTRACT OF THE DISCLOSURE

5           A method for communicating data is provided that  
includes communicating a first set of data from a first  
channel to a first serial-to-parallel converter and  
communicating a second set of data from a second channel  
to a second serial-to-parallel converter, the data sets  
10       are then converted to a parallel format. The converters  
are monitored to determine when one or more words of the  
respective data sets have accumulated in each of the  
converters. One or more of the words that have  
accumulated in each of the converters are then written to  
15       a selected one of first and second memory banks. A  
single scheduler monitors the memory banks to determine  
when the words that were written to each of the memory  
banks have formed one or more cells such that they may be  
read out of a selected one of the memory banks to be  
20       communicated to an output communications link.